Is the person listed above the owner? Yes

□No

Status of Applicant (Check one) Federal State Private Public Other (specify)

	n D - Existing or Pend	want. An anneng Co.	i chiiomeionio, or 1	- Physical Control of the Control of	
✓ MP	DES G010242		R	CRA	
PSI	O (Air Emissions)		Do	ther	
<u> 404</u>	Permit (dredge & fill)		other	
Sectio	on E – Standard Indu	strial Classificat	ion (SIC) Codes	•	
Provid	Provide at least one SIC code which best reflects the activity of project described in Section H.				
Code		rimary	Code	B. Second	
1	213		2 24		
Code 3	252	Third	3 25	D. Fourth	
				<i>"</i>	,
	F - Facility or Site C				
Name a	and Title, or Position T	itle Joe P. Hore	er, Farm Boss		
	Address 17 Springw				
City, Sta	ate, and Zip Code Har	lowton, MT 590	36		******
Phone N	Number (406	6)632-5512 Ext	105		
Section	G - Receiving Surfa	ce Waters(s):			
	Outfall/Discharge Lo		outfall, List latitude me of the receivin	e and longitude to the nearest second and ng waters	
	Outfall Number	Latitude	Longitude	Receiving Surface Waters	
	Outfall Number 001	Latitude 46.45879	109.74072	Receiving Surface Waters Seasonal Pond	
	001 002				
	001 002 003				
	001 002 003 004				
	001 002 003				
	001 002 003 004 005	46.45879	109.74072	Seasonal Pond	
Section B	001 002 003 004 005 ach a topographic map of depicting the facility of	extending one mile activity boundari	to beyond the properies, major drainage		in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of lso identify the specific	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of lso identify the specific	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of lso identify the specific	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of lso identify the specific	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of lso identify the specific	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of lso identify the specific	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated
Section B above. Al	001 002 003 004 005 ach a topographic map of depicting the facility of lso identify the specific	extending one mile or activity boundari location of the pro-	e beyond the properies, major drainage oduction area, and	Seasonal Pond erty boundaries or the site activity identified e patterns, and the receiving surface waters, sland application area(s).	in stated

 ${\bf Section}\, {\bf H-Concentration}\,\, {\bf Animal}\,\, {\bf Feeding}\,\, {\bf Operation}\,\, {\bf Characteristics}$

Waste Production, Storage and Disposal

	Animal type	Number in Open	Number Housed Under
	Ammai type	Confinement	Roof
Ø	Mature Dairy Cows	25	145
Ø	Dairy Heifers	50	
	Veal Calves		
	Cattle (not dairy or veal)		
Ø	Swine (55 lbs or over)		12630
Ø	Swine (55 lbs or under)		4500
	Horses		
	Sheep or Lambs		
	Turkeys	-	
Ø	Chickens (broilers)		8400
Ø	Chickens (layers)		1300
Ø	Ducks	800	
1	Other (Specify: Pullets)		800
	Other (Specify:)		
	Other (Specify:)		

•	Litter and/or Wastewater Produc h manure, litter, and process wastew	tion and Use. vater is generated annually by the facility?
Solid (ton	s):7,500 tons	Liquid/Slurry (gallons):4 million gallons
	•	control of the permit applicant are available to apply the manure, litter, or ? (Note: Do not include setback distances in available acreage
How much (tons):0	<u>-</u>	rater is transferred to other persons per year? (estimated) SolidLiquid/Slurry (gallons):0
	formations? Do the waste containment structure.	bruary 2006? es have 10 feet of separation between the pond bottom and any bedrock res have 4 feet of separation from the pond bottom and any ground water? nt structures built within 500 feet of any existing well?

	Type of Containmer. torage	Total Capacity	Units (¿ ons or tons)	Days of Storage
	☐ Anaerobic Lagoon		·	
	☑ Storage Pond #1	1,925,172	gallons	180
	☑ Storage Pond #2	4,915,976	gallons	365+
	☑ Storage Pond #3	738,096	gallons	365
	☐ Storage Pond #4			
	☐ Storage Pond #5		·	
	☐ Above Ground Storage Tank			
	☐ Below Ground Storage Tank #1			
	☐ Below Ground Storage Tank #2			
	□ Underfloor Pits			
	☐ Roofed Storage Shed			
	☑ Concrete Pad	123,254	tons	180
	☑ Impervious Soil Pad		· · · · · · · · · · · · · · · · · · ·	
l 1-	Other (Specify:pullet barn storage)	24,895	gallons	30
i I	Other (Specify:layer barn storage	24,895	gallons	30
	Data for CAFO			
developed One) Does Date Date	tment (Form NMP). Check the box below to a coordance with ARM 17.30.1334 and the facility have an NMP? NMP was developed: January 2009 NMP was last modified: has not been prepared; provide detailed exp	implemented upon	the effective date of perr	nit coverage. (Check
Section I	- Supplemental Information			
WASHING I	~~ Fr produces assaus assausted			
				4
*				

Section J - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

JOE P. HOFFR	
B. Title (Type or Print)	C. Phone No.
D. Signature	E. Date Signed
Joe P Hoken	10/28/13
	. !

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (NOI) and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

Form NOI – Application for New and Existing Concentrated Animal Feeding Operations and Aquatic Animal Production Facilities

Important: Do not use this form to transfer permit coverage to a new owner or operator, you must use Form PTN. You must provide the information requested for this application to be complete. Responses must be self-explanatory and must not refer exclusively to attached maps, plans or documents. The appropriate fees must accompany this Form NOI. Mail this to the DEQ address stated on the form. You must maintain a copy of the completed form for your records. CAFO General Permit and the Fish Farm General Permit documents and related forms are available at (406) 444-3080 or on the DEQ website at: http://www.deq.mt.gov.

Please type or print legibly; applications that are not legible or are not complete will be rejected.

SPECIFIC ITEM INSTRUCTIONS

Section A - Application Status

Check the box that applies and provide the requested information. If Form NOI has not been previously submitted for this site, check the first box (New). DEQ will assign a permit number when the form is submitted. The permit number is a 9-digit code beginning with MTG010. If you submitted a Form NOI and DEQ deemed the application deficient or incomplete, check the second box (Resubmitted); If you were notified by DEQ that the permit coverage expired or will expire and you are now submitting an NOI to continue coverage check the third box (Renewal); if there is a change in the facility information (Section H or Section I), check the last box (Modification). If a NOI has been submitted and deemed deficient then the permit number will appear in the deficiency letter. If the site is covered under the General Permit for Concentrated Animal Feeding Operations or the General Permit for Fish farms, the number is given on the Authorization letter sent to you by DEQ. The permit number must be included on any correspondence with DEQ regarding this site.

Section B - Facility Information:

Identify the legal name of the facility that is subject to permit coverage. The facility is the land or property where the facility or activity is physically located or conducted, including adjacent land used in connection with the facility or activity. Give the address or location of this facility and the geographical information. The location may be the physical mailing address or description of how the facility may be accessed. (PO Boxes are not acceptable.) Latitude and longitude must be accurate to the nearest second. Sources include GPS, a USGS topographic map, and/or "Topofinder" from http://nris.mt.gov/interactive.asp.

Section C - Applicant (Owner/Operator) Information:

Give the name, as it is legally referred to, of the person, business, public organization, or other entity that owns, operates, controls or supervises the facility described in Section B of this Form. The operator is the legal entity which controls the facility operation. The permit will be issued to the entity identified in this section (Section C). The owner or operator assumes all liability for discharges of the facility and compliance with the permit. If the owner or operator is other than a person or government entity it must be registered with the Montana Secretary of State's office.

Section D - Existing or Pending Permits, Certification, or Approvals:

List, in descending order of significance, the four digit standard industrial codes that best describe the activities at this facility. Also, provide a brief description in the space provided. A complete list of SIC Codes (and conversion form the newer North American Industry Classification System (NAICS)) can be obtained from the Internet at http://www.census.gov/epcd/www/naics.html or in paper from the document entitled "Standard Industrial Classification Manual", Office Management and Budget, 1987. SIC Code listings may also be found at http://www.osha.gov/pls/imis/sicsearch.html. At least on SIC code must be provided. See attached table for common SIC codes.

Section F - Facility Contact Person/Position:

Give the name, title, and work phone number of a person who is thoroughly familiar with the operation of the facility and the facts reported in this form, and who can be contacted by DEQ for additional information. Those facilities with periodic changes in the contact person may provide the contact person's position instead of a person's name.

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Section G - Receiving Surface Water(s):

An outfall location is considered to be a discrete channel, conveyance, structure, or flow path from which the discharge leaves the boundary of the facility and/or enters surface water. "Surface waters" is defined in ARM 17.30.1102(32) as any waters on the earth's surface including, but not limited to, streams, lakes, ponds, reservoir, or other surface water including ephemeral and intermittent drainage ways and irrigation systems. Water bodies used solely for treating, transporting, or impounding pollutants shall not be considered surface water. Provide the following information in the table on the application form:

- 1. Assign a number to each outfall starting with 001. If the outfall is not well defined, assign the outfall number to the drainage area. For existing permittees, ensure outfall numbers used are consistent with those identified in the past for the same outfall.
- 2. Latitude/longitude can be derived from USGS 7.5 minute topographic map and/or "Topofineder" at http://nris.mt.gov/interactive.html. Latitude and longitude must be accurate to the nearest second.
- 3. Give the name of the surface waters that receive the discharge. If the discharge reports to a municipal storm sewer, please indicate so.
- 4. Please attach a USGS topographic map(s) indicating the boundary of your facility, major drainage patterns, and the receiving surface water(s).

The facility must check the CWAIC data base at http://cwaic.mt.gov/ to determine if the receiving water is impaired for nutrient (nitrate and/or phosphorus).

Section H - Concentrate Animal Feeding Operation Characteristics:

Waste Production, Storage and Disposal:

Report the maximum number of each type of animal confined at any one time and the type of confinement structure used for each (e.g. open feedlot, under roof.)

Manure, Litter, and/or Wastewater Production and Use:

To transfer waste means to give away or sell waste to another person for disposal on land owned or controlled by someone other than the permit applicant.

The term "storage pond," includes, but is not limited to ponds, aerobic lagoons, evaporation ponds, manure holding cells, collection basins, settling basins, bermed or diked areas used for impounding waste, and temporary or seasonal waste holding ponds.

"Production area" means that part of an Animal Feeding Operation (AFO) that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The animal confinement area includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milk rooms, milking centers, cow yards, barnyards, medication pens, walkers, animal walkways, and stables. The manure storage area includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storage, liquid impoundments, static piles, and composting piles. The raw materials storage area includes but is not limited to feed silos, silage bunkers, and bedding materials. The waste containment area includes but not limited to settling basins, and areas within berms and diversion which separate uncontaminated storm water. Also include in the definition of production area is any egg washing or egg processing facility, and any area used in storage, handling, treatment, or disposal of mortalities.

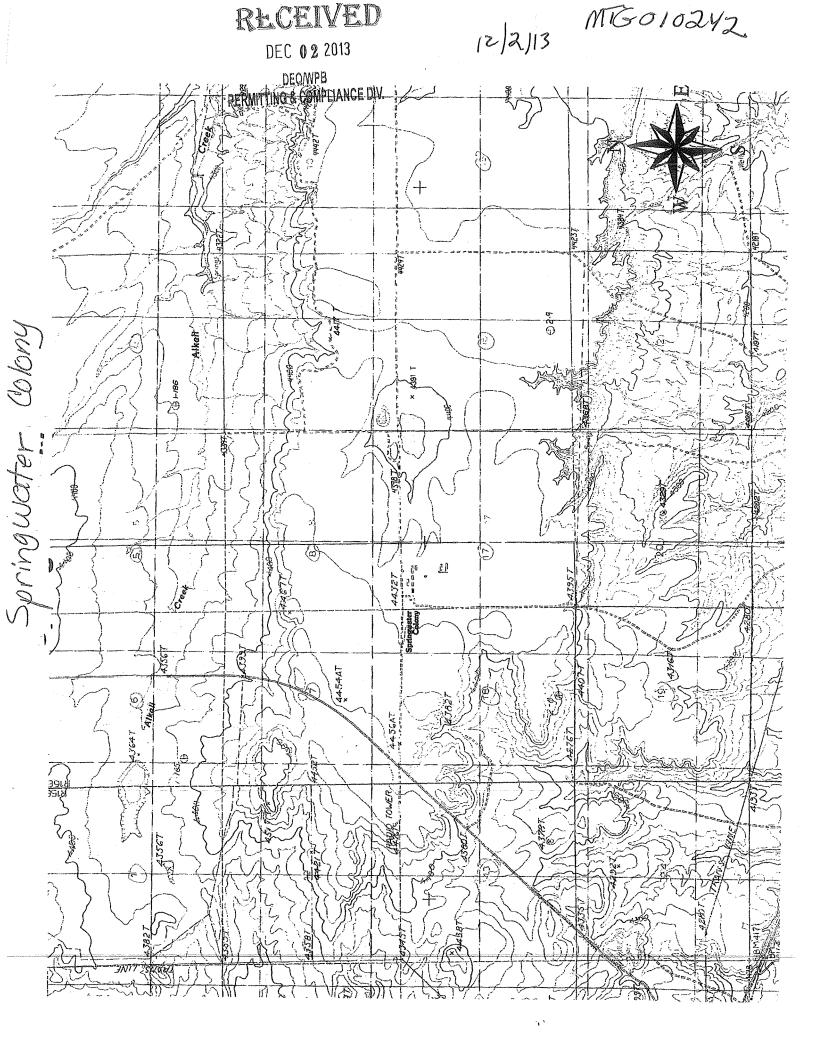
"Land application area" means land under control of AFO owner or operator, whether it is owned, rented, or leased, to which manure, litter or process wastewater from the production area is or may be applied.

Section I - Supplemental Information:

Use the space provided to expand upon any information requested in the application or information you wish to bring to the attention of the reviewer. Attach additional sheets, if necessary. For applicants requesting a modification to an existing authorization or site-specific Nutrient Management Plan (aka Form NMP), provide and explanation of the requested modification.

Common Standard Justrial Classification (SIC) Codes

Division	SIC	Industrial Activity Represented
- COMPANIES AND	211	Beef Cattle Feedlots
	212	Beef Cattle, Except Feedlots
	213	Hogs
,	214	Sheep and Goats
•	241	Dairy Farms
Agriculture, Forestry and	251	Broiler, Fryer and Roaster Chickens
Fishing	252	Chicken Eggs
	253	Turkeys and Turkey Eggs
	254	Poultry hatcheries
	259	Poultry and Eggs, not elsewhere classified (Ducks)
	272	Horses and other Equines
	921	Fish Hatcheries and Preserves
	1021	Copper Ores
	1031	Lead and Zinc
	1044	Silver Ores
Mining	1041	Gold Ores
	1221	Bituminous Coal and Lignite Surface Mining
	1311	Crud Petroleum and Natural Gas
	1442	Construction Sand and Gravel
	1521	General Contractor - Single Family Houses
	1522	General Contractor - Residential Bldgs. Other Than Single Family
		General Contractor - Nonresidential Buildings, Other than Industrial Buildings and
	1542	Warehouses
_	1611	Highway and Street Construction, Except Elevated Highways
Construction	1622	Bridge, Tunnel, and Elevated Highway construction
	1623	Water, Sewer, Pipeline, communications & Power Line Construction
	1629	Heavy construction, Not Elsewhere Classified
	1794	Excavation Work
	7349	Building Cleaning and Maintenance Services, Not Elsewhere
	2011	Meat Packing Plants
	2063	Beet Sugar
	2421	Sawmills and Planning Mills, General
Manufacturing	2611	Pulp Mills
	2911	Petroleum Refining
	3241	Cement, Hydraulic
O TOTAL CONTRACTOR CON	4911	Electric Services
Fransportation,	4941	Water Supply
Communications, Electric,	4952	Sewerage Systems
Sas and Sanitary Services	4953	Refuse Systems
	5093	Scrap and Waste Materials
Vholesale Trade	5154	Livestock
•	5171	Petroleum Bulk Stations and Terminals
	5541	Gasoline Service Station
etail Trade	5984	Liquefied Petroleum Gas (Bottled Gas) Dealers
	7011	Hotels and Motels
ervices	7033	Recreational Vehicle Parks and Campsites
	7542	Carwashes
	9224	Fire Protection
ublic Administration	9711	National Security





WATER PROTECTION BUREAU

FORM NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For filling out Form NMP," found at the back of this form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or https://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A – NMP St	atus:	•	
New	No prior NMP submitted for this site.		
emining to 1	D. C. NIMD Count in a mulata		
Resubmitted	Previous NMP found incomplete.		
Modification	Change or update to existing NMP.		
Production			
✓ New 2013	New 2013 version of NMP.		
Section B - Facility			
Facility Name Spring	gwater Colony		
	Springwater Lane PO Box 782		
Nearest City of Town		CountyWheatland	
		County	
	nt (Owner/Operator Information):	en e	
Owner or Operator N	ame Joe P. Hofer, Farm Boss		
Mailing Address 17	Springwater Lane PO Box 782		
	ode Harlowton, MT 59036		
City, State, and Zip c	ode	A CONTRACTOR OF THE CONTRACTOR	
Facility Phone Numb	er (406) 632-5512 Ext. 105		
Email			

Secti	on D – NMP Minimum Elements:		
	1. Livestock Statistics		
	Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons, cu. yds. or gal
	1. please see attached table		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
Meth	od used for estimating annual man d is measured in the ponds and th	nure production:	
pleas	escribe Manure handling at the fa se see attached. requency of Manure Removal fron		
pleas	e see attached.		inthick in the dark to to be developed and an exact paracommunicacy and a page 100 and
If Layer	this manure temporarily stored in so then how and where? and pullet barns each have temporarily tank and separated to slab a	o pits adjacent to barns (see map	Specialists Section and Sectio
If	manure stored on impervious surf yes, describe type and characterist 1 & 2 are lined. Slab is concrete	ics of this surface:	

Section D

			Annual Manure
	Animal Type and Number	# of Days on Site	Production
	of Animals	(per year)	(tons, cu.yds. Or
		(1-2-7-2-7)	gal)
1	Chickens-layers-8400	365	240 tons
2	Chickens-fryers-3600	. 365	144 tons
	Hogs-replacement gilts-		
3	50	365	36,000 gal
4	Hogs-boars-30	365	20,000 gal
5	Hogs-breeder sows-550	365	474,000 gal
6	Hogs-wieners-2000	365	788,000 gal
7	Hogs-growers-2500	365	1,312,000 gal
8	Hogs-finishers-12000	365	3,000,000 gal
9	Dairy calves-55	365	290 tons
10	Dairy heifers-open-50	210	278 tons
11	Dairy heifers-open-50	365	870 tons
12	Dairy-dry cows-25	365	588 tons
13	Dairy-milking-145	365	4416 tons
14	Steers-40	210	400 tons
15	Ducks-800	91	6 tons
16	Pullets-4200	365	102 tons

Liquid is measured in the ponds and the solid manure is weighed when applying

2. Manure Handling

Described Manure Handling at the Facility

Layer and pullet barns have temporary pits-hauled to fields approx every 30 days when the ground is not frozen. If frozen, it is hauled to hog holding tank and run through separator. Dairy barn is daily scraped into under barn pit, flushed to hog holding tank. Dairy lot is hauled out annually. Fryer barn solids hauled after each set. Hog has under barn storage. Storage is flushed to hog holding tank, separated. In all cases, separated liquid flows to stage 1 then to stage 2, solids are stored on the slab adjacent to separator.

b. Layer and pullet barns—every 30 days to field or to hog holding tank. Dairy barn-daily scraped to under barn tem storage, flushed to hog holding tank 1 per month. Hog barn-under barn storage pumped to hog holding tank as needed. Separated manure flows to stage 1 then, stage 2 and solids are stored on slab. Slab solids hauled to fields in fall. Liquid is tanked to fields in fall.

3. Waste Control Str	3. Waste Control Structures				
Waste Control	Length	Width	Depth	Volume	Number of
Structures	(ft.)	(ft.)	(ft.)	(cubic ft.	days of
(name/type)				or gallons)	storage
1.Stage 1 lagoon	304	189	8	1,925,172 g	180
² ·Stage 2 lagoon	434	304	8	4,915,976 g	365+
³ ·Slab	140	110	8	123,200 cf	365
⁴ ·Dairy barn storag	96	30	8	129,254 g	30
5-pullet barn storag	26	16	8	3,328 cf	30
⁶ ·layer barn storag	26	16	8	3,328 cf	30
⁷ ·dairy runoff pond	161	158	8	738,096 g	30
8.hog barn	525	165	2	647,955 g	30
9.					
10.					
11.					
12.					

What is the 24 hr. 25 yr. storm event at this facility 2.7 inches			nes	
Production area: 30	_acres.	Type of lot (dirt o	or paved): dirt	
			s confinement areas and waste storag	ė,
conveyance, or treatment struc	tures: 3		_ acres.	
What is the annual precipitatio	n during the	e critical storage	period ⁶ inches	
How much freeboard do the po	ond(s) have 2	2 feet		·-
4. Disposal of Dead Animals.				

Describe how dead animals are disposed of at this facility: dead animals are transported from site approximately 3/4 mile from production area buried eight feet deep.

5. Clean Water Diversion Practices
Describe how clean water is diverted from production area: down spouts from roof water diversion dikes; are keeping from flowing clean water into production area
6. Prohibiting Animals and Wastes from Contact with State Waters Describe how animals and wastes are prohibited from direct contact with state waters: animals have no contact with state waters.
Describe how Chemicals and other contaminants are handled on-site: no chemicals are stored in confinement area
7. Best Management Practice (BMPS)
Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces,, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area: decreasing open lot surface area; repairing of adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable. Production Area BMP's
Clean water is separated from getting into the facility by a dike. Ponds are lined. All leaks are fixed as soon as possible.
Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP

measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

T novor	snrav irrigating was	te on to frozen g	ground: consulting with the Depa	rtment prior to applying any
Heven	waste to frozen or si	now-covered gro	ound; applying wastes at agronon	nic rates.
Land Soil a	Application BMP's	ed annually. Ma d areas of conc	inure is not spread within 100 ft ern are monitored. Equipment is	of residences and wells, not
Infil	ers structed Wetlands tration Field backs er examples	✓ Yes No Yes No Yes No Yes No Yes No	Conservation Tillage Grass Filter Residue Management Terrace	☐ Yes ✓ No ☐ Yes ✓ No ✓ Yes ☐ No ☐ Yes ☐ No
The mai	nermittee is required	d to develop guid ty, and record k	keeping as described in Part 2 of t	the permit.
Cer	rtify the document ad	dress the follow	ing requirements:	
8	plementation of the N		✓ Yes No	
8 -	cility operation and m		✓ Yes No	
a a	cord keeping and rep		✓ Yes No	
В	mple collection and a		7 Yes No	
ħ	anure transfer	v	Yes No	
	ovide name, date and nuary 2009-Develop	location of mos ed with NRCS,	st recent documentation: and updated	and the second s
I: nc	f your answer to any o manure is transferre	of the above qu ed off-site	estion is no, provide explanation	:

	~~~
Section E – Land Application	
Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility	?
Yes If yes, then the information requested in Section E must be provided.	
No If no, then provide an explanation of how animal waste at this facility are managed.	
,	

#### Photos and/or Maps

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any downgradient surface waters.
- The location of any downgradient open tile line intake structures
- The location of any downgradient sinkholes
- The location of any downgradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

#### Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibration procedures:

liquid-applied using primary pump supply line to injection plow. solid-applied using spreader

#### Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to ARM 17.30.1334

Other (describe)

NRCS methods described in their literature, sent to certified lab

#### Soil Sampling and Analysis Procedures

Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater

Soil samples collection will occur according the methods in ARM 17.30.1334

Other (describe)

soil samples are taken 0-6" and 6-12" sent to certified lab.

#### **Phosphorus Risk Assessment**

The permittee shall access the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or

may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

#### Method Used

Indicate which method will be used to determine phosphorus application:

Method A – Representative Soil Sample

Method B – Phosphorus Index

#### Method A - Representative Soil Sample

- a. Obtain one or more representative soil sample(s) from the field per 17.30.1334
- b. Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm)
- c. Using the results of the Olsen P test, determine application basis according to the Table below.

#### Soil Test

Olsen P Soil Test Results (ppm)	Application Basis
<25.0	Nitrogen Needs of Crop
25.1 - 100.0	Phosphorus Needs of Crop
100.0 – 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application allowed

#### Method B – Phosphorus Index

- a. Complete a phosphorus Index according to the crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections in Appendix A, please refer to the method as described in Natural Resource Conservation Service (NRCS), Agronomy Technical Note MT-77 (rev3), January 2006.
- b. Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus

Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c. Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

The applicant has 2 ways in which to report how manure or process wastewater application rates can be reported to DEQ.

- 1. Linear Approach. Expresses rates of application as pounds of nitrogen and phosphorus. CAFOs selecting the linear approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum application rate (pounds/acre/year of nitrogen and phosphorus) from manure, litter, and process wastewater.
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. [If a state does not have an N transport risk assessment, the NMP must document any basis for assuming that nitrogen will be fully used by crops.] The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted or any other uses of a field such as pasture or fallow fields.
- The realistic annual yield goal for each crop or use identified for each field.
- The nitrogen and phosphorus recommendations from in ARM 17.30.1334 (technical standard) for each crop or use identified for each field.
- Credits for all residual nitrogen in each field that will be plant-available.
- Consideration of multi-year phosphorus application. For any field where nutrients are applied at a rate based on the crop phosphorus requirement, the NMP must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement.
- All other additions of plant available nitrogen and phosphorus (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen).
- The form and source of manure, litter, and process wastewater to be land-applied.
- The timing and method of land application. The NMP also must include storage capacities needed to ensure adequate storage that accommodates the timing indicated.
- The methodology that will be used to account for the amount of nitrogen and phosphorus in the manure, litter, and wastewater to be applied.
- Any other factors necessary to determine the maximum application rate identified in accordance with this Linear Approach.
- 2. Narrative Rate Approach. Expresses a narrative rate of application that results in the amount, in tons or gallons, of manure, litter, and process wastewater to be land applied. CAFOs selecting the narrative rate approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum amounts of nitrogen and phosphorus that will be derived from all sources of nutrients (pounds/acre for each crop and field).
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted in each field or any other uses of a field such as pasture or fallow fields, including alternative crops if applicable. Any alternative crops included in the NMP must be listed by field, in addition to the crops identified in the planned crop rotation for that field.
- The realistic annual yield goal for each crop or use identified for each field for each year, including any alternative crops identified.
- The nitrogen and phosphorus recommendations from [the permitting authority to specify acceptable sources] for each crop or use identified for each field, including any alternative crops identified.
- The methodology (including formulas, sources of data, protocols for making determination, etc.) and actual data that will be used to account for: (1) the results of soil tests required by Parts II.A.4.b and III.A.3.g of this

permit, (2) credits for all nitrogen in the field that will be plant- available, (3) the amount of nitrogen and phosphorus in the manure, litter, and process wastewater to be applied, (4) consideration of multi-year phosphorus application (for any field where nutrients are applied at a rate based on the crop phosphorus requirement, the methodology must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement), (5) all other additions of plant available nitrogen and phosphorus to the field (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen), (6) timing and method of land application, and (7) volatilization of nitrogen and mineralization of organic nitrogen.

• Any other factors necessary to determine the amounts of nitrogen and phosphorus to be applied in accordance with the Narrative Rate Approach.

- NMPs using the Narrative Rate Approach must also include the following projections, which will not be used by the permitting authority in establishing site-specific permit terms:
- i. Planned crop rotations for each field for the period of permit coverage.
- ii. Projected amount of manure, litter, or process wastewater to be applied.
- iii. Projected credits for all nitrogen in the field that will be plant-available.
- iv. Consideration of multi-year phosphorus application.
- v. Accounting for other additions of plant-available nitrogen and phosphorus to the field.
- vi. The predicted form, source, and method of application of manure, litter, and process wastewater for each crop
  - If the receiving water is on the 303(d) list for nutrients then the narrative rate approach must be used.
  - a. For the Linear Approach the permittee will complete the Nutrient Budget Worksheet, below, for the next 5 years to which manure or process waste water is or may be applied. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nu	trient	Budget Worksheet field	6						
Fie	ld ide	entification: Sec 5 of G-/LY ear		rop: Pers					
Ex	pected	d Crop Yield:			2				
		rus index results or Phosphorus	s application from	soil test:	/				
			ry Unject	wn					
When will application occur: Fall 2843  Nutrient Budget Nitrogen-based Phosphorus- Source of									
		Dauget	Application	based Application	information				
1		Crop Nutrient Needs, lbs/acre	15-25#	25	MSG EB161 Soil Test				
2	(-)	Credits from previous legume crops, lbs/ac	27#		SoilTest				
3	(-)	Residuals from past manure production lbs/acre	0	0					
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	0	0					
5	(-)	Nutrients supplied in irrigation water, lbs/acre	0	0					
6		= Additional Nutrients Needed, lbs/acre	0	25 W					
		TO LOVE	1978)	122					
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	13.4	. 83	Slury Lot Analy sis Manue Da Hand Book				
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	0.65	1.0	Manue De Hand Book	rs			
9		= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	8.71	. 83					
				TARREST TO STATE OF THE STATE O	200				
10		Additional Nutrients needed, lbs/acre (calculated above)	0	25					
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	8.71	283					
12		= Manure Application Rate, tons/acre or 1000 gal/acre	0	30,000					

Comments:

3 T. A	· 4	Product Worksheet Vield 7		•					
Nutrient Budget Worksheet Vield 7  Field identification: 525018/(Year: 2014 Crop: HRS W									
Expected Crop Yield:									
EXP	ectet	and index possite or Phoenhorus	annlication from	soil test: 7	7				
Phosphorus index results or Phosphorus application from soil test:  Method of Application:  Method of Application:									
When will ambigation occur: 7 all od 2013									
Nutrient Rudget Nitrogen-based Phosphorus- Source of									
Application based information									
		•		Application					
	. •	Crop Nutrient Needs,	H	2.4	MIGU EB 161 Soil Tests				
1		lbs/acre	132	35 #	18/61				
Λ.	()	Credits from previous	132 th	•	6115				
2	(-)	legume crops, lbs/ac	27		1016 essa				
3		Residuals from past manure	Λ						
3	(-)	production lbs/acre			3				
		Nutrients supplied by			· .				
4 (-)		commercial fertilizer and	0						
		Biosolids, lbs/acre		·					
5	<b>(-)</b>	Nutrients supplied in	()	10	· ·				
Maria Caracana		irrigation water, lbs/acre	·						
6		= Additional Nutrients Needed, lbs/acre	105	35	•				
		Needed, instacte			of the second constitution				
		Total Nitrogen and	-						
		Phosphorus in manure,			Slury				
7		lbs/ton or lbs/1000 gal	13 13#	02	Lab				
		(from manure test)	.13,4*	, 83	Slung Laby ANALYSIS				
	A	Nutrient Availability factor,			Manue Hard NRCSBOOK				
8	(x)	for Phosphorus based	1010	1.0	nR (CBook				
	and the second s	application use 1.0	0.65	110	MACS				
		= Available Nutrients in							
9		Manure, lbs/ton or	8,71	. 83					
		lbs/1000 gal	1 00		and the second second				
		Additional Nutrients	<u> </u>						
10		needed, lbs/acre (calculated		1.					
IV		above)	105	1.35					
		Available Nutrients in		- 0					
11	(/)	Manure, lbs/ton or lbs/1000	0	00					
11 (	147	gal (calculated above)	8.71	. 83					
	1	Ber formamen and a	THE PARTY OF THE P						
		= Manure Application							
12			12,000	42,000					

Comments:

treed 7

			orksheet (Com		ar: 20			
Field	2 None (0)		op: /// O	,∕- ve Talaa in	ear: 💓 U		ing tige=erasi	
Categori Factor						(1)		75
Soil Erosio	n NA	<5 tons/as/yr	5-10 ton/ac/yr	10-15 tons/ac/yr	QA> 10 for erodible soils		X1.5	
Furrow Irrigation Enosion	N/A	very erodible soils, or QS>10 other soils		QS> for erodible soils	QA>6 for very erodible solls		X1.5	
Sprinkler trrigation Erosion	All fields 0- 3% slope, al sandy fields or field evaluation indicates little or no	15% slopes, large spray on silty soils 8- 15% slope, low spray on silt	on day soils 3- 8% slopes, large spray on day soils >15% slope, medium spray on silt soil	slope, low spray on clay soil 3-8% slope, low	Low spray on clay soils >8% slopes	7	X1.5	
	runoff large spray on silts 3-8%	soils 3-8% large spray on clay soil 3-15% slope	>15% slope	spray on silty soils >15% slopes				
Runoff Class	Negligible	Very Low or Low	Medium	High	Very High		X 0.5	4
Olson Soil Test P	errindo-escriberados -	<20 ppm	20-40 ppm	40-80 ppm	>80 ppm		X 0.5	
Commercial P Festilizer Application Method	None Applied	Placed with Planter or Injection deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season	Incorporated >3 months before crop or surface applied <3 months	Surface applied to pasture or >3 months before crop emerges		X 1.0	
	None Applied	<30 lbs/ac P205	31-90 lbs/ac P205	before crop emerges 91-150 lbs/ac P205	>150 lbs/ac		X1.0	
Application Rate .			5 & G. G.					
	Applied .	deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season	>3 months before crop or surface applied <3	Surface applied to pasture or >3 months before crop emerges	1	X 1.0	
637		- 1	31-90 lbs/ac P205		>150 lbs/ac P205		X 1.0	
istance to > oncentrate Surface /ater Flow	1 1 0	200-1,000 ieet, or imctioning trass vaterways in concentrated urface water	100-200 feet		O feet or application are directly into concentrate d surface water flow areas.		X 1.0	

	bec 5 of	8 N/6 E Cro	p: Peas	Ye	ar: 20	0/4		
Eield Categor Fáctor	e Norte (0)	Low (I)	Medium (2)	pole.	everyanen (a)	Rick(Va)de (0.1,2,4,8)		1
Soil Erosio	n NA	<5 tons/as/yr	5-10 ton/ac/yr	10-15 tons/ac/yr	QA> 10 for erodible soils	1	X 1.5	13
Furrow Irrigation	N/A	Tail water recovery, QS>6	QS> for erosion resistant soil	QS> for erodible soils	QA>6 for very erodible	Ō	X 1.5	D
Erosion	·	very erodible soils, or QS>10 other soils			soils	B-2222 September 1997 1 5 6		992.50
Sprinkler	All fields 0-	Medium spray	Medium spray	Medium	Low spray	n	X 1.5	m
Irrigation Erosion	3% slope, all sandy fields	15% slopes,	on clay soils 3- 8% slopes, large	1 . 1	on clay soils >8% slopes			
	or field evaluation	large spray on silty soils 8-	spray on clay soils >15%	slope, low spray on day				
*	indicates little or no	, , ,	slope, medium	soil 3-8%				
	runoff large	spray on silt solls 3-8%	spray on silt soil >15% slope	spray on			ra.	
	spray on	large spray on		silty soils				
	silts 3-8%	clay soil 3-15% slope		>15% slopes				
Runoff Class	Negligible	Very Low or Low	Medium	High	Very High	37	X 0.5	7
Dison Soil Test P		<20 ppm	20-40 ppm	40-80 ppm	>80 ppm		X 0.5	
ommercial	None	Placed with	Incorporated <3	Incorporated	Surface	4	X 1.0	
Fertilizer	Applied	Planter or	months prior to	>3 months	applied to			
application Aethod		injection deeper than 2	planting or surface applied	before crop or surface	pasture or >3 months	1 2		
recisou		inches	during growing	applied <3	before crop			
			season	months	emerges			
	·			before crop emerges			. by .	
ommercial	None	<30 lbs/ac	31-90 lbs/ac	91-150	>150 lbs/ac		X 1.0	
Fertilizer	Applied ·	P205	P205	lbs/ac P205	P205	7		
pplication ate							•	
rganic P	1		-	Incorporated		1		
ource oplication		- 1	months prior to planting or	>3 months before crop	applied to pasture or		X 1.0	
ethod			surface applied	or surface	>3 months			
			during growing	applied <3	before crop			
			season	months before crop.	emerges			
<b>1</b>	3		31-90 lbs/ac	91-150	>150 lbs/ac	1	X 1.0	
urce plication te	Applied	P205	P205	lbs/ac P205	P205 _«			
tance to		- 1	100-200 feet	<100 feet	O feet or		X 1.0	
ncentrate		eet, or	•	,	application	<b>(</b>		(4)
urface ter Flow	- 1	unctioning grass			are directly into			,
	. 1-	vaterways in		7	concentrate			
· . I		oncentrated			d surface	<b>l</b>		,
l	s	urface water			water flow			
1	· 1.				areas.	1	1	

#### Section F - CERTIFICATION

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

### All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
JOE P. HOFER	
B. Title (Type or Print)	C. Phone No.
Ductor + Farm Boson	
D. Signature	E. Date Signed
Joe P. Holon	10/28/18

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

# INSTRUCTION FOR Form NMP – Nutrient Management Plan Associated With Concentrated Animal Feeding Operations

You may need the following items in order to complete this form: A copy of your most recently submitted NOI-CAFO: United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), No. 80.1 Nutrient Management, Agronomy Technical Note MT-11 (revision 3), January 2006; Montana State University Extension Service Publication 161, Fertilizer Guidelines for Montana Crops; United States Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS), Sampling Soils for Nutrient Management – Manure Resource, MT 04/07; Montana State University, Mont Guide, Interpretation of Soil Test Reports for Agriculture, MT200702AG, July, 2007; United States Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS), Conservation Practice Standard, Code 590 (November 2006) and Waste Utilization, Code 633 (August 2000).

Please type or print legibly; forms that are not legible will be considered incomplete.

#### SPECIFIC ITEM INSTRUCTIONS

#### Section A - NMP Status:

Check the box that applies and provide the requested information. If the Form NMP has not been previously submitted for this site, check the first box (New). If you submitted a FORM NMP and the department found it to be incomplete, check the second box (Resubmitted);

If you were notified by the Department that the permit coverage expired and you are now submitting and updated Form NMP, check the third Box (Modification). If you have received a deficiency letter in regard to your NMP application the facilities assigned designation will be noted in the RE: line starting with MTG#####. If the site is covered under *the General Permit for Concentrated Animal Feeding Operation*, the number is given on the Authorization letter sent to you by the Department. The permit number must be included on any correspondence with the Department regarding this site.

#### **Section B – Facility Information:**

The information must be stated exactly the same way as it was stated on the most recently submitted version of your form NOI-CAFO.

#### Section C – Applicant (Owner/Operator) Information:

The information must be stated exactly the same way as it was stated on the most recently submitted version of your form NOI-CAFO.

#### Section D – Waste Management Minimum Elements:

1. Livestock Statistics: Identify each type of animal confined at this facility. The definition of "type" could include animals of a given species, animals of a given weight class (e.g. piglets, sows), or animals housed for a specific purpose (e.g. dry cows, milking cows).

- "number of days on site per year" means the number of days at least one animal of a given type is held in confinement during 12-month period.
- "Annual manure production" means the volume of manure (from a given animal type) that is stored, land applied, or transferred to another person during any given 12-month period.
- "Method used for estimating annual manure production." When describing the method used to calculate annual manure production, include all formulas, factors, references to tables, and other resources used to calculate manure production. Be sure to account for soiled bedding materials and manure-contaminated runoff water, which is also consider manure under state regulations. For example on how to calculate manure production see <a href="http://animalrangeextension.montana.edu/articles/natresourc/cnmp/nonprint/step2.htm">http://animalrangeextension.montana.edu/articles/natresourc/cnmp/nonprint/step2.htm</a>.

#### 2. Manure Handling

Describe manure handling at the facility.

- 3. Waste Control Structures. List all waste control structures. These may include, but are not limited to, manure lagoons, manure ponds. Evaporation ponds, wastewater retention ponds, contaminated runoff retention ponds, settling basins, underground storage tanks, underfloor pits, manure solids stacking pads, vegetative treatment strips, composting facilities, and dry stack facilities. Berms, dikes, concrete curbs, ditches, and waste transfer pipelines are also waste control structures and must be listed; though some of the requested measurements may not apply (e.g. "column" usually does not apply to a waste transfer pipeline).
- "25-year 24-hour rainfall event" means a precipitation event with a probable recurrence interval of once in 25 years as defined by the National Weather Service in Technical Paper Number 40, "Rainfall Frequency Atlas of the United States," May 1961, and subsequent amendments, or the equivalent regional or state rainfall probability information developed therefrom.
- "Critical Storage period" The minimum design volume for liquid manure storage structures is based on the expected length of time between emptying events that result in maximum production of process wastewater, including runoff from the production area. That period is the *critical storage period*. The critical storage period is considered to the 180 days starting November 1st to April 30.
- **4. Disposal of Dead Animals**. Please be as specific as possible with the information that you provide. For example, if dead animals are disposed of by burial, the method/practice description should include the fact that they are buried, how quickly after death they are hauled to the burial site, and how quickly they are covered with soil and the depth of the soil cover over the animal. The method/practice location information should be detailed enough that an inspector can find the site without the need for additional guidance (e.g. latitude and longitude). It may not simply reference a map.
- 5. Clean Water Diversion Practices, The practice description does not need to be any more detailed than "berm", "ditch", grassy swale," etc. The practice location may not simply reference a map.
- **6.** Prohibiting Animals & wastes from Contact with State Waters. The practice description does not need to be any more detailed than "fence", "wall", etc. The practice location may not simply reference a map.

Chemicals and Contaminants. List all major chemicals or other contaminants handled on site as part of your CAFO operation. This would include, but not limited to, pesticides, herbicides, animal dips, disinfectants, etc. Specify the method of disposal for each chemical/contaminant.

7. Best Management Practice (BMPs). Describe the BMPs used to control runoff of pollutants from the production area, and land application area. Please note that "production area" means that part of a CAFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The "animal confinement area" includes but in not limited to open lots, housed lots, feedlots, confinement houses, stall barns, animal walkways, and stables. The "manure storage area" includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storages, liquid impoundments, static piles, and composting piles. The "raw material storage area" includes but is not limited to feed silos, silage bunkers, and bedding materials. The "waste containment area" includes but is not limited to settling basins, and areas within berms and diversions which separate uncontaminated storm water. Also included in the definition of production area is any egg washing or egg processing facility, and any area used in the storage, handling, treatment, or disposal of mortalities. If you transfer all of the wastes your CAFO produces, and do not land apply any of it to ground under your operational control, then you will not have any land application area BMPs to describe.

#### **Section E – Land Application:**

If all of the manure produced at your facility will be transferred to other persons for use in areas beyond your operational control, then you do not need to provide the information requested in Section E. of this form.

#### Photos and/or maps:

Manure /waste handling and nutrient management restrictions that must be on the photo/map include buffers and setbacks around state surface waters, well heads, etc.

Nutrient Management and Waste Utilization via Land Application:

The purpose for having two options is to allow the producer to make use of the valuable technical assistance provided by the USDA's Natural Resources Conservation (NRCS), if you should desire.

#### Land Application Equipment Calibration:

Land application equipment calibration in essential to ensuring that nutrients are being applied at agronomic rates. Please provide specific information on how equipment will be calibrated. The CAFO shall maintain the supporting documentation on site and shall make this information available to DEQ upon request.

Manure sampling and Analysis: Manure must be sampled per ARM 17.30.1334.

When sending manure or soil samples to a laboratory for analysis, it is your responsibility to make sure that the lab uses the correct sampling procedures. Approved Laboratories can be found in Montana State University Extension Service Publication 4449-1, Soil Sampling and Laboratory Selection, June 2005. Before you take any samples, talk to the lab that you intend to use. Ask them if they have specific instructions in order to help ensure

that the analysis results you get are as accurate as possible. If they do, then you must follow their instructions in order to help ensure that the analysis results you get are as accurate as possible.

Linear Approach Nutrient budget work Sheet. You will most likely need to fill out multiple photocopies of the nutrient budget work sheet.

Line 1 Enter in the planned crop nutrient needs in pounds per acre from <a href="http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx">http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx</a> MSU EB 161.

Line 2 Enter the credits from previous legume crop pounds per acre. See <a href="http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx">http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx</a> for Legume crop credits.

Line 3 Enter nutrient credits from second year manure applications pounds per acre. See <a href="http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx">http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx</a> for mineralization rate

Line 4 Enter nutrients supplied by commercial fertilizer in pounds per acre. This can be starter or other fertilizer that is applied prior to manure application.

Line 5 Enter nutrients supplied by any irrigation water in pounds per acre.

Line 6 Subtract lines 2 through 5 from line 1 and enter in the space provided

Line 7 Enter in the nitrogen or phosphorus from sample taken of manure or process waster water within the last year.

Line 8 Enter in the Nutrient Avalibility Factor. See <a href="http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx">http://deq.mt.gov/wqinfo/mpdes/cafo.mcpx</a> for Nitrogen Avalibility factor. Enter 1 for phosphorus.

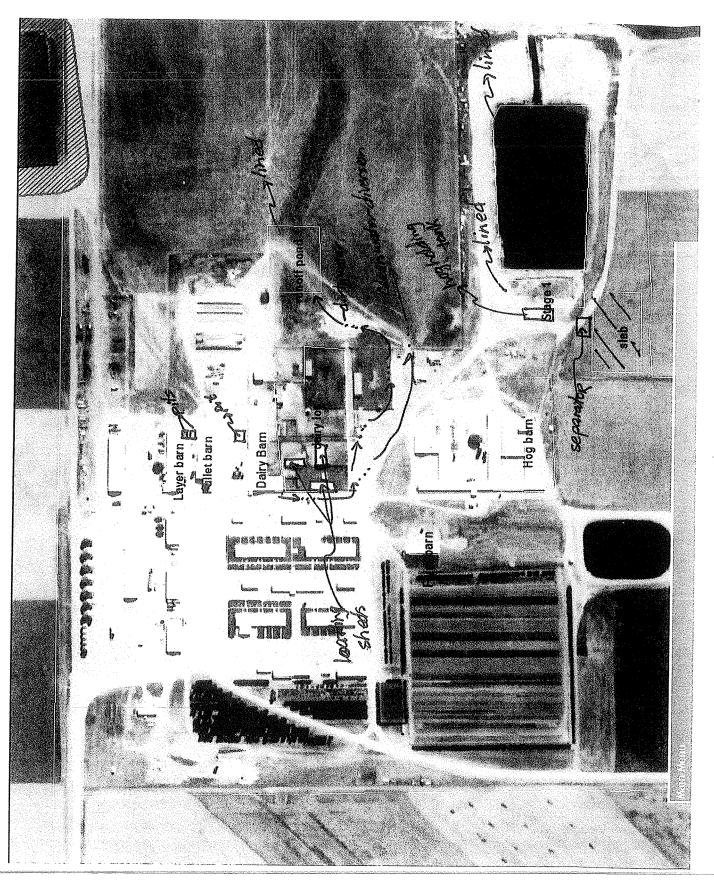
#### Section F - Certification:

If Form NMP is filled out by one person and signed by another, the person signing the document should read it thoroughly. Always retain a copy of each of the documents that you send to the Department.

If you have any questions concerning how to fill out this form, or other forms related to the Montana Pollutant Discharge Elimination System (MPDES) discharge permitting program, please contact the Department's Water Protection Bureau at:

Phone: (406) 444-3080 Fax: (406) 444-1374 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901

Field:		Cro	o:	Yea	ar:			
Field Category Factor	None (0)	Low (1)	Medium (2)	High (4)	Very High (8)	Risk Value (0,1,2,4,8)	Weight Factor	Weigh Risk
Soil Erosion	NA	<5 tons/as/yr	5-10 ton/ac/yr	10-15 tons/ac/yr	QA> 10 for erodible soils		X 1.5	
Furrow Irrigation Erosion	N/A	Tail water recovery, QS>6 very erodible soils, or QS>10 other soils	QS> for erosion resistant soil	QS> for erodible soils	QA>6 for very erodible soils		X 1.5	
Sprinkler Irrigation Erosion	All fields 0- 3% slope, all sandy fields or field evaluation indicates little or no runoff large spray on silts 3-8%	Medium spray on silty soils 3- 15% slopes, large spray on silty soils 8- 15% slope, low spray on silt soils 3-8% large spray on clay soil 3-15% slope	8% slopes, large spray on clay soils >15%	soils >8% slope, low spray on clay soil 3-8%	Low spray on clay soils >8% slopes		X 1.5	
Runoff Class	Negligible	Very Low or Low	Medium	High	Very High		X 0.5	
Olson Soil Test P		<20 ppm	20-40 ppm	40-80 ppm	>80 ppm		X 0.5	
Commercial P Fertilizer Application Method	None Applied	Placed with Planter or injection deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season	Incorporated >3 months before crop or surface applied <3 months before crop emerges	Surface applied to pasture or >3 months before crop emerges		X 1.0	
Commercial P Fertilizer Application Rate	None Applied	<30 lbs/ac P205	31-90 lbs/ac P205	91-150 lbs/ac P205	>150 lbs/ac P205		X 1.0	
-	None Applied	Injected deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season	Incorporated >3 months before crop or surface applied <3 months before crop.	Surface applied to pasture or >3 months before crop emerges		X 1.0	
- 1	None Applied	<30 lbs/ac P205	31-90 lbs/ac P205	91-150 lbs/ac P205	>150 lbs/ac P205	· · · · · · · · · · · · · · · · · · ·	X 1.0	
Distance to Concentrate I Surface Water Flow		200-1,000 feet, or functioning grass waterways in concentrated surface water	100-200 feet	<100 feet	O feet or application are directly into concentrate d surface water flow areas.		X 1.0	

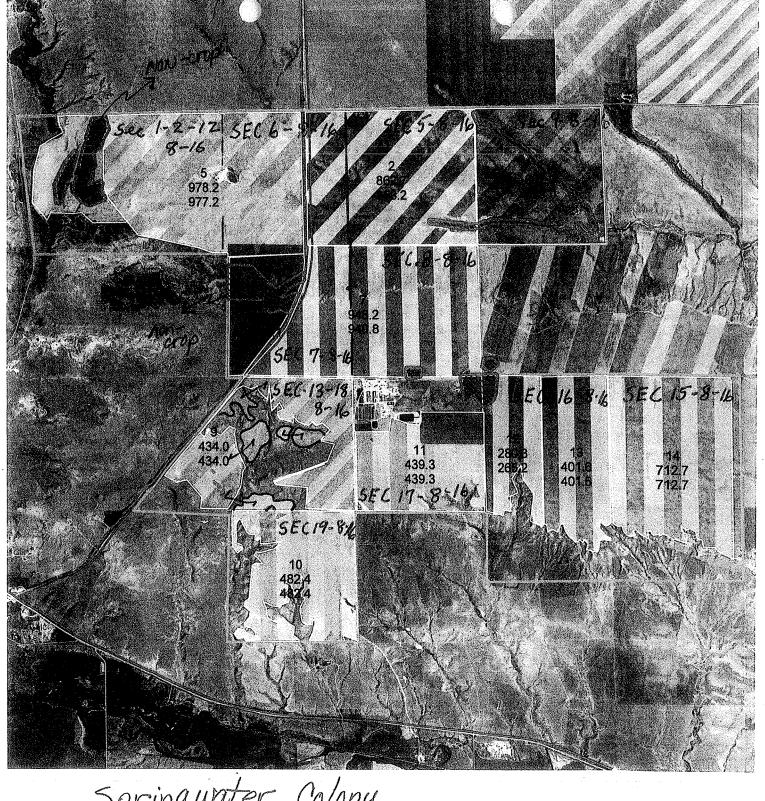




Springwater Colony



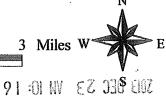
Field Name Subfield Name (Optional) Acres Spreadable Acres



Springwater Colony

RECEIVE

3 Miles W



Field Name Subfield Name (Optional) Acres Spreadable Acres

JAN 03 2014

EINVNCIVE SERVICES RECEIVED BY DEO

JAN 0 3 2014

DEQMPB PERMITTING & COMPLIANCE DIV.

Section	Map Unit Symbol	Texture	Runoff Rating
1	493B/497B	cobbly loam/gravelly loam	Low
2	134B/497B	loam/gravelly loam	Medium
4	488D/490B	loam/loam	Medium
5	490B	loam	Medium
6	490B/146C/471C	loam/clay loam/silty clay loam	High
7	146B	loam	Medium
8	146C/146B	clay loam/clay loam	High
9	147B	loam	Medium
12	146B	clay loam	High
13	830C	loam	Medium
15	298B/830B	gravelly loam/loam	Medium
16	298B/830B	gravelly loam/loam	Medium
17	298B/830B	gravelly loam	Low
18	300D/146B	fine sandy loam/clay loam	High
19	298B	gravelly loam	Low
20	298B	gravelly loam	Low
21	94C	gravelly loam	Low
22	298B	gravelly loam	Low
-24	===830C	VIII Proposition of the second	Mediam

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